

Superfund Long-Term Human Health Protection Worksheet

Definition: The Long-Term Human Health Protection EI documents the progress achieved towards providing long-term human health protection by measuring the incremental progress achieved in controlling unacceptable human exposures at a site.

Site Name: ACM SMELTER AND REFINERY

EPA ID: MTD093291599

HE Survey Status: Current Human Exposure Not Controlled

Estimated Under Control Date: 03/31/26

Estimated Date for Sufficient Information to make a HE Determination (if HEID):

Estimated LTHHP will be Achieved: 03/31/26

Justification Text: If site status has changed, Please enter a justification as to why the status has changed:

Current human exposure not controlled.

Skip to Step 5	Step 1. Is there sufficient known and reliable information to make an evaluation on human exposures at this site? Answer: <u>Yes</u> Listing Reference Documents: <u>001 EI Reports</u>	No	Insufficient Data to Determine Human Exposure Control Status
	Yes		
	Step 2. Have all human exposure-related cleanup goals been met for the entire site? Answer: <u>NO</u> Listing Reference Documents:	Yes	Long-Term Human Health Protection Achieved
	No		
	Step 3. Are there complete human exposure pathways between contaminated groundwater, surface water, soil, sediment or air media and human receptors such that exposures can be reasonably expected under current conditions? Answer: <u>Yes</u> Listing Reference Documents:	Yes	
	Step 4. Are the actual or reasonably expected human exposures associated with the complete pathways identified in Step 3 with acceptable limits under current conditions? Answer: <u>NO</u> Listing Reference Documents:	No	Current Human Exposures Not Controlled
Yes			
	Step 5. Is the site Construction Complete, is the remedy operating as intended, and are engineering and institutional controls, if required, in place and effective? Answer: Listing Reference Documents:	No	Current Human Exposures Controlled
		Yes	Current Human Exposure Controlled and Protective Remedy in Place
Step 6. Are there continuing exposures at the site? Answer: <u>NO</u> Answer "Yes" only if EPA (or a state or PRP) has extended all response actions and legal authorities to prevent unacceptable human exposures, yet exposures continue due to a refusal by the property owner(s) to participate in the remedy (e.g., refusal to accept a municipal water supply hookup) AND the region wishes to exercise its discretion to classify this site as Human Exposure Under Control, consistent with the requirements laid out in the Superfund Environmental Indicators Guidance (OSWER 9285 02, March 2008, pages 4-10 and 4-11).			

Remedial Project Manager Coleman, Charles

Date Completed 3/9/15
03/10/2016

Superfund Long-Term Human Health Protection Worksheet

Definition: The Long-Term Human Health Protection EI documents the progress achieved towards providing long-term human health protection by measuring the incremental progress achieved in controlling unacceptable human exposures at a site.

Site Name: ANACONDA ALUMINUM CO COLUMBIA FALLS REDUCTION EPA ID: MTD057561763

PLANT

HE Survey Status:

Estimated Under Control Date:

Estimated Date for Sufficient Information to make a HE Determination (if HEID): 12/31/2023

Estimated LTHHP will be Achieved:

Justification Text: If site status has changed. Please enter a justification as to why the status has changed:

Step 1. Is there sufficient known and reliable information to make an evaluation on human exposures at this site? Answer: <u>No</u> Listing Reference Documents:		No	Insufficient Data to Determine Human Exposure Control Status
↓ Yes			
Step 2. Have all human exposure-related cleanup goals been met for the entire site? Answer: Listing Reference Documents:		Yes	Long-Term Human Health Protection Achieved
↓ No			
Skip to Step 5	Step 3. Are there complete human exposure pathways between contaminated groundwater, surface water, soil, sediment or air media and human receptors such that exposures can be reasonably expected under current conditions? Answer: Listing Reference Documents:	No	Current Human Exposures Not Controlled
	↓ Yes		
	Step 4. Are the actual or reasonably expected human exposures associated with the complete pathways identified in Step 3 with acceptable limits under current conditions? Answer: Listing Reference Documents:	No	Current Human Exposures Controlled Current Human Exposure Controlled and Protective Remedy in Place
	↓ Yes		
Step 5. Is the site Construction Complete, is the remedy operating as intended, and are engineering and institutional controls, if required, in place and effective? Answer: Listing Reference Documents:	No	Current Human Exposure Controlled and Protective Remedy in Place	
↓ Yes			
Step 6. Are there continuing exposures at the site? Answer: Answer "Yes" only if EPA (or a state or PRP) has extended all response actions and legal authorities to prevent unacceptable human exposures, yet exposures continue due to a refusal by the property owner(s) to participate in the remedy (e.g., refusal to accept a municipal water supply hookup) AND the region wishes to exercise its discretion to classify this site as Human Exposure Under Control, consistent with the requirements laid out in the Superfund Environmental Indicators Guidance (OSWER 9285 02, March 2008, pages 4-10 and 4-11).			

Remedial Project Manager Cirian, Mike

Date Completed

12/31/2023

Superfund Long-Term Human Health Protection Worksheet

Definition: The Long-Term Human Health Protection EI documents the progress achieved towards providing long-term human health protection by measuring the incremental progress achieved in controlling unacceptable human exposures at a site.

Site Name: ANACONDA CO. SMELTER

EPA ID: MTD093291656

HE Survey Status: Insufficient Data to Determine Human Exposure Control Status

Estimated Under Control Date:

Estimated Date for Sufficient Information to make a HE Determination (if HEID): 12/31/15 20

Estimated LTHHP will be Achieved: 12/31/15 20

Justification Text: If site status has changed. Please enter a justification as to why the status has changed:

Change as a result of new information currently being evaluated.

Step 1. Is there sufficient known and reliable information to make an evaluation on human exposures at this site?

Answer: NO YES

Listing Reference Documents: 2013 ROD Amendment CSOU

No

Insufficient Data to Determine Human Exposure Control Status

Yes

Step 2. Have all human exposure-related cleanup goals been met for the entire site?

Answer: NO

Listing Reference Documents:

Yes

Long-Term Human Health Protection Achieved

No

Step 3. Are there complete human exposure pathways between contaminated groundwater, surface water, soil, sediment or air media and human receptors such that exposures can be reasonably expected under current conditions?

Answer: YES

Listing Reference Documents: 2013 CSOU ROD Amendment
2011 Agency ROD Amendment

Yes

Step 4. Are the actual or reasonably expected human exposures associated with the complete pathways identified in Step 3 with acceptable limits under current conditions?

Answer: NO

Listing Reference Documents:

No

Current Human Exposures Not Controlled

Yes

Step 5. Is the site Construction Complete, is the remedy operating as intended, and are engineering and institutional controls, if required, in place and effective?

Answer:

Listing Reference Documents:

No

Current Human Exposures Controlled

Yes

Current Human Exposure Controlled and Protective Remedy in Place

Step 6. Are there continuing exposures at the site?

Answer: NO

Answer "Yes" only if EPA (or a state or PRP) has extended all response actions and legal authorities to prevent unacceptable human exposures, yet exposures continue due to a refusal by the property owner(s) to participate in the remedy (e.g., refusal to accept a municipal water supply hookup) AND the region wishes to exercise its discretion to classify this site as Human Exposure Under Control, consistent with the requirements laid out in the Superfund Environmental Indicators Guidance (OSWER 9285 02, March 2008, pages 4-10 and 4-11).

Remedial Project Manager: Coleman, Charles

Date Completed: 3/9/16
OSW
103/10/2016

Superfund Long-Term Human Health Protection Worksheet

Definition: The Long-Term Human Health Protection EI documents the progress achieved towards providing long-term human health protection by measuring the incremental progress achieved in controlling unacceptable human exposures at a site.

Site Name: BARKER HUGHESVILLE MINING DISTRICT

EPA ID: MT6122307485

HE Survey Status: Current Human Exposure Controlled

Estimated Under Control Date:

Estimated Date for Sufficient Information to make a HE Determination (if HEID):

Estimated LTHHP will be Achieved: 06/30/15 3/31/30

Justification Text: If site status has changed. Please enter a justification as to why the status has changed:

Removal action. Absence of permanent residents in close proximity to mine wastes.

Skip to Step 5	Step 1. Is there sufficient known and reliable information to make an evaluation on human exposures at this site? Answer: Yes Listing Reference Documents: <u>Draft RI Report</u>	No	Insufficient Data to Determine Human Exposure Control Status
	Yes		
	Step 2. Have all human exposure-related cleanup goals been met for the entire site? Answer: No Listing Reference Documents: <u>Draft RI Report</u>	Yes	Long-Term Human Health Protection Achieved
	No		
	Step 3. Are there complete human exposure pathways between contaminated groundwater, surface water, soil, sediment or air media and human receptors such that exposures can be reasonably expected under current conditions? Answer: NO Listing Reference Documents:	No	Current Human Exposures Not Controlled
	Yes		
Step 4. Are the actual or reasonably expected human exposures associated with the complete pathways identified in Step 3 with acceptable limits under current conditions? Answer: Listing Reference Documents:	No	Current Human Exposures Controlled	
Yes			
Step 5. Is the site Construction Complete, is the remedy operating as intended, and are engineering and institutional controls, if required, in place and effective? Answer: NO Listing Reference Documents:	No	Current Human Exposure Controlled and Protective Remedy in Place	
Yes			
Step 6. Are there continuing exposures at the site? Answer: NO Answer "Yes" only if EPA (or a state or PRP) has extended all response actions and legal authorities to prevent unacceptable human exposures, yet exposures continue due to a refusal by the property owner(s) to participate in the remedy (e.g., refusal to accept a municipal water supply hookup) AND the region wishes to exercise its discretion to classify this site as Human Exposure Under Control, consistent with the requirements laid out in the Superfund Environmental Indicators Guidance (OSWER 9285 02, March 2008, pages 4-10 and 4-11).			

Remedial Project Manager Hoogerheide, Roger

Date Completed

3/8/15

6/10/2016

Superfund Long-Term Human Health Protection Worksheet

Definition: The Long-Term Human Health Protection EI documents the progress achieved towards providing long-term human health protection by measuring the incremental progress achieved in controlling unacceptable human exposures at a site.

Site Name: BASIN MINING AREA

EPA ID: MTD982572562

HE Survey Status: Current Human Exposure Controlled

Estimated Under Control Date:

Estimated Date for Sufficient Information to make a HE Determination (if HEID):

Estimated LTHHP will be Achieved: 06/30/18 9 2022

Justification Text: If site status has changed. Please enter a justification as to why the status has changed:

Changed as a result of a data quality review and reassessment completed on 11/10/05 by the site RPM and the Montana Office Director.

People can access contaminated soils and waters in the drainage under a recreational senario.

Skip to Step 5	<p>Step 1. Is there sufficient known and reliable information to make an evaluation on human exposures at this site?</p> <p>Answer: <u>Yes</u></p> <p>Listing Reference Documents:</p>	No	Insufficient Data to Determine Human Exposure Control Status	
	<p>Step 2. Have all human exposure-related cleanup goals been met for the entire site?</p> <p>Answer: <u>No</u></p> <p>Listing Reference Documents:</p>	Yes		Long-Term Human Health Protection Achieved
	<p>Step 3. Are there complete human exposure pathways between contaminated groundwater, surface water, soil, sediment or air media and human receptors such that exposures can be reasonably expected under current conditions?</p> <p>Answer: <u>Yes</u></p> <p>Listing Reference Documents:</p>	No	Current Human Exposures Not Controlled	
	<p>Step 4. Are the actual or reasonably expected human exposures associated with the complete pathways identified in Step 3 with acceptable limits under current conditions?</p> <p>Answer: <u>Yes</u></p> <p>Listing Reference Documents:</p>	Yes		
	<p>Step 5. Is the site Construction Complete, is the remedy operating as intended, and are engineering and institutional controls, if required, in place and effective?</p> <p>Answer: <u>No</u></p> <p>Listing Reference Documents:</p>	No		Current Human Exposures Controlled
	<p>Step 6. Are there continuing exposures at the site?</p> <p>Answer: <u>Yes</u></p> <p>Answer "Yes" only if EPA (or a state or PRP) has extended all response actions and legal authorities to prevent unacceptable human exposures, yet exposures continue due to a refusal by the property owner(s) to participate in the remedy (e.g., refusal to accept a municipal water supply hookup) AND the region wishes to exercise its discretion to classify this site as Human Exposure Under Control, consistent with the requirements laid out in the Superfund Environmental Indicators Guidance (OSWER 9285 02, March 2008, pages 4-10 and 4-11).</p>	Yes		

Remedial Project Manager	Edwards, Kristine	Date Completed
		3/4/16

9/1/05/10/2016

Superfund Long-Term Human Health Protection Worksheet

Definition: The Long-Term Human Health Protection EI documents the progress achieved towards providing long-term human health protection by measuring the incremental progress achieved in controlling unacceptable human exposures at a site.

Site Name: BURLINGTON NORTHERN LIVINGSTON SHOP COMPLEX

EPA ID: MTD986066025

HE Survey Status: Current Human Exposure Not Controlled

Estimated Under Control Date: 09/30/21

Estimated Date for Sufficient Information to make a HE Determination (if HEID):

Estimated LTHHP will be Achieved: 09/30/21

Justification Text: If site status has changed. Please enter a justification as to why the status has changed:

<p>Step 1. Is there sufficient known and reliable information to make an evaluation on human exposures at this site?</p> <p>Answer: <u>Yes</u></p> <p>Listing Reference Documents:</p>	No	<p>Insufficient Data to Determine Human Exposure Control Status</p>
<p>Step 2. Have all human exposure-related cleanup goals been met for the entire site?</p> <p>Answer: <u>No</u></p> <p>Listing Reference Documents:</p>	Yes	<p>Long-Term Human Health Protection Achieved</p>
<p>Step 3. Are there complete human exposure pathways between contaminated groundwater, surface water, soil, sediment or air media and human receptors such that exposures can be reasonably expected under current conditions?</p> <p>Answer: <u>Yes</u></p> <p>Listing Reference Documents:</p>	No	<p>Current Human Exposures Not Controlled</p>
<p>Step 4. Are the actual or reasonably expected human exposures associated with the complete pathways identified in Step 3 with acceptable limits under current conditions?</p> <p>Answer: <u>No</u></p> <p>Listing Reference Documents:</p>	No	<p>Current Human Exposures Not Controlled</p>
<p>Step 5. Is the site Construction Complete, is the remedy operating as intended, and are engineering and institutional controls, if required, in place and effective?</p> <p>Answer:</p> <p>Listing Reference Documents:</p>	No	<p>Current Human Exposures Controlled</p>
<p>Step 6. Are there continuing exposures at the site?</p> <p>Answer: <u>No</u></p> <p>Answer "Yes" only if EPA (or a state or PRP) has extended all response actions and legal authorities to prevent unacceptable human exposures, yet exposures continue due to a refusal by the property owner(s) to participate in the remedy (e.g., refusal to accept a municipal water supply hookup) AND the region wishes to exercise its discretion to classify this site as Human Exposure Under Control, consistent with the requirements laid out in the Superfund Environmental Indicators Guidance (OSWER 9285 02, March 2008, pages 4-10 and 4-11).</p>	Yes	<p>Current Human Exposure Controlled and Protective Remedy in Place</p>

No change

9/10/2016

<p>Remedial Project Manager <u>Hoogerheide, Roger</u></p>	<p>Date Completed <u>3/8/16</u></p>
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Superfund Long-Term Human Health Protection Worksheet

Definition: The Long-Term Human Health Protection EI documents the progress achieved towards providing long-term human health protection by measuring the incremental progress achieved in controlling unacceptable human exposures at a site.

Site Name: CARPENTER SNOW CREEK MINING DISTRICT

EPA ID: MT0001096353

HE Survey Status: ~~Current Human Exposure Controlled~~ Current Human Exposure Not Controlled

Estimated Under Control Date:

Estimated Date for Sufficient Information to make a HE Determination (if HEID):

Estimated LTHHP will be Achieved: 12/31/20

Justification Text: If site status has changed, Please enter a justification as to why the status has changed:

~~Removal completed. No residents in close proximity to mine wastes. 2009 ROD for OUI required cleanup of residential properties in Neihart~~

Step 1. Is there sufficient known and reliable information to make an evaluation on human exposures at this site?

Answer: Yes

Listing Reference Documents:

al2
Draft RI Report
Final OUI ROD

No

Insufficient Data to Determine Human Exposure Control Status

Step 2. Have all human exposure-related cleanup goals been met for the entire site?

Answer: No

Listing Reference Documents:

Draft RI Report
Final OUI ROD

Yes

Long-Term Human Health Protection Achieved

Step 3. Are there complete human exposure pathways between contaminated groundwater, surface water, soil, sediment or air media and human receptors such that exposures can be reasonably expected under current conditions?

Answer: ~~No~~ Yes

Listing Reference Documents:

2009
OUI ROD

No

Yes

Step 4. Are the actual or reasonably expected human exposures associated with the complete pathways identified in Step 3 with acceptable limits under current conditions?

Answer: No

Listing Reference Documents:

2009 OUI ROD

No

Current Human Exposures Not Controlled

Yes

Step 5. Is the site Construction Complete, is the remedy operating as intended, and are engineering and institutional controls, if required, in place and effective?

Answer: No

Listing Reference Documents:

No

Current Human Exposures Controlled

Yes

Current Human Exposure Controlled and Protective Remedy in Place

Step 6. Are there continuing exposures at the site?

Answer: No

Answer "Yes" only if EPA (or a state or PRP) has extended all response actions and legal authorities to prevent unacceptable human exposures, yet exposures continue due to a refusal by the property owner(s) to participate in the remedy (e.g., refusal to accept a municipal water supply hookup) AND the region wishes to exercise its discretion to classify this site as Human Exposure Under Control, consistent with the requirements laid out in the Superfund Environmental Indicators Guidance (OSWER 9285 02, March 2008, pages 4-10 and 4-11).

Skip to Step 5

Remedial Project Manager

Hoogerheide, Roger 042/3
Tillman McAdams OUI
(see second sheet from Tillman)

Date Completed

3/8/15
95V
03/10/2016

Superfund Long-Term Human Health Protection Worksheet

Definition: The Long-Term Human Health Protection EI documents the progress achieved towards providing long-term human health protection by measuring the incremental progress achieved in controlling unacceptable human exposures at a site.

Site Name: CARPENTER SNOW CREEK MINING DISTRICT

EPA ID: MT0001096353

HE Survey Status: Current Human Exposure Controlled ~~NOT Controlled~~

Estimated Under Control Date:

Estimated Date for Sufficient Information to make a HE Determination (if HEID):

Estimated LTHHP will be Achieved: 12/31/21

Justification Text: If site status has changed. Please enter a justification as to why the status has changed:

~~Removal completed. No residents in close proximity to mine wastes. Remedial action for OUI complete.~~
RESIDENTIAL SOILS REMEDIATION REQUIRED DUE TO CONTAMINATION ABOVE ACTION LEVELS.

<p>No</p> <p>Skip to Step 5</p>	<p>Step 1. Is there sufficient known and reliable information to make an evaluation on human exposures at this site?</p> <p>Answer: <u>Yes</u></p> <p>Listing Reference Documents:</p>	<p>No</p>	<p>Insufficient Data to Determine Human Exposure Control Status</p>
	<p>Yes</p>		
	<p>Step 2. Have all human exposure-related cleanup goals been met for the entire site?</p> <p>Answer: <u>NO</u></p> <p>Listing Reference Documents:</p>	<p>Yes</p>	<p>Long-Term Human Health Protection Achieved</p>
	<p>No</p>		
	<p>Step 3. Are there complete human exposure pathways between contaminated groundwater, surface water, soil, sediment or air media and human receptors such that exposures can be reasonably expected under current conditions?</p> <p>Answer: <u>NO</u> <u>YES (Sediment & Soil)</u></p> <p>Listing Reference Documents:</p>		
	<p>Yes</p>		
	<p>Step 4. Are the actual or reasonably expected human exposures associated with the complete pathways identified in Step 3 with acceptable limits under current conditions?</p> <p>Answer: <u>NO</u></p> <p>Listing Reference Documents:</p>	<p>No</p>	<p>Current Human Exposures Not Controlled</p>
	<p>Yes</p>		
	<p>Step 5. Is the site Construction Complete, is the remedy operating as intended, and are engineering and institutional controls, if required, in place and effective?</p> <p>Answer: <u>NO</u></p> <p>Listing Reference Documents:</p>	<p>No</p>	<p>Current Human Exposures Controlled</p>
		<p>Yes</p>	<p>Current Human Exposure Controlled and Protective Remedy in Place</p>
	<p>Step 6. Are there continuing exposures at the site?</p> <p>Answer: <u>NO</u></p> <p>Answer "Yes" only if EPA (or a state or PRP) has extended all response actions and legal authorities to prevent unacceptable human exposures, yet exposures continue due to a refusal by the property owner(s) to participate in the remedy (e.g., refusal to accept a municipal water supply hookup) AND the region wishes to exercise its discretion to classify this site as Human Exposure Under Control, consistent with the requirements laid out in the Superfund Environmental Indicators Guidance (OSWER 9285 02, March 2008, pages 4-10 and 4-11).</p>		

Remedial Project Manager Hoogerheide, Roger OUI

Date Completed

Graham McAdams OUI

MARCH 8, 2016

Superfund Long-Term Human Health Protection Worksheet

Definition: The Long-Term Human Health Protection EI documents the progress achieved towards providing long-term human health protection by measuring the incremental progress achieved in controlling unacceptable human exposures at a site.

Site Name: EAST HELENA SITE

EPA ID: MTD006230346

HE Survey Status: Current Human Exposure Controlled

Estimated Under Control Date:

Estimated Date for Sufficient Information to make a HE Determination (if HEID):

Estimated LTHHP will be Achieved: 06/30/30

Justification Text: If site status has changed. Please enter a justification as to why the status has changed:

Changed as a result of a data quality review and reassessment completed on 11/10/05 by the site RPM and the Montana Office Director.

Skip to Step 5	Step 1. Is there sufficient known and reliable information to make an evaluation on human exposures at this site? Answer: <u>Yes</u> Listing Reference Documents:	No	Insufficient Data to Determine Human Exposure Control Status
	↓ Yes		
	Step 2. Have all human exposure-related cleanup goals been met for the entire site? Answer: <u>NO</u> Listing Reference Documents:	Yes	Long-Term Human Health Protection Achieved
	↓ No		
	Step 3. Are there complete human exposure pathways between contaminated groundwater, surface water, soil, sediment or air media and human receptors such that exposures can be reasonably expected under current conditions? Answer: <u>NO</u> Listing Reference Documents:	No	Current Human Exposures Not Controlled
	↓ Yes		
Step 4. Are the actual or reasonably expected human exposures associated with the complete pathways identified in Step 3 with acceptable limits under current conditions? Answer: Listing Reference Documents:	No	Current Human Exposures Controlled Current Human Exposure Controlled and Protective Remedy in Place	
↓ Yes			
Step 5. Is the site Construction Complete, is the remedy operating as intended, and are engineering and institutional controls, if required, in place and effective? Answer: <u>NO</u> Listing Reference Documents:	No		
↓ Yes			
Step 6. Are there continuing exposures at the site? Answer: <u>NO</u> Answer "Yes" only if EPA (or a state or PRP) has extended all response actions and legal authorities to prevent unacceptable human exposures, yet exposures continue due to a refusal by the property owner(s) to participate in the remedy (e.g., refusal to accept a municipal water supply hookup) AND the region wishes to exercise its discretion to classify this site as Human Exposure Under Control, consistent with the requirements laid out in the Superfund Environmental Indicators Guidance (OSWER 9285 02, March 2008, pages 4-10 and 4-11).			

Remedial Project Manager	Burns, Betsy	Date Completed	3/9/2016
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OSW
10/10/2016

Superfund Long-Term Human Health Protection Worksheet

Definition: The Long-Term Human Health Protection EI documents the progress achieved towards providing long-term human health protection by measuring the incremental progress achieved in controlling unacceptable human exposures at a site.

Site Name: FLAT CREEK IMM

EPA ID: MT0012694970

HE Survey Status: Insufficient Data to Determine Human Exposure Control Status

Estimated Under Control Date:

Estimated Date for Sufficient Information to make a HE Determination (if HEID): 12/31/16/89

Estimated LTHHP will be Achieved: 09/30/18/9 2022

Justification Text: If site status has changed. Please enter a justification as to why the status has changed:

Skip to Step 5	Step 1. Is there sufficient known and reliable information to make an evaluation on human exposures at this site? Answer: <u>NO</u> Listing Reference Documents:	No	Insufficient Data to Determine Human Exposure Control Status
	Step 2. Have all human exposure-related cleanup goals been met for the entire site? Answer: <u>No</u> Listing Reference Documents:	Yes	Long-Term Human Health Protection Achieved
	Step 3. Are there complete human exposure pathways between contaminated groundwater, surface water, soil, sediment or air media and human receptors such that exposures can be reasonably expected under current conditions? Answer: <u>Yes</u> Listing Reference Documents: <u>State of MT EE/CA</u>	No	
	Step 4. Are the actual or reasonably expected human exposures associated with the complete pathways identified in Step 3 with acceptable limits under current conditions? Answer: <u>No</u> Listing Reference Documents:	No	Current Human Exposures Not Controlled
	Step 5. Is the site Construction Complete, is the remedy operating as intended, and are engineering and institutional controls, if required, in place and effective? Answer: <u>No</u> Listing Reference Documents:	No	Current Human Exposures Controlled
	Step 6. Are there continuing exposures at the site? Answer: <u>No</u> Yes <u>No</u> Answer "Yes" only if EPA (or a state or PRP) has extended all response actions and legal authorities to prevent unacceptable human exposures, yet exposures continue due to a refusal by the property owner(s) to participate in the remedy (e.g., refusal to accept a municipal water supply hookup) AND the region wishes to exercise its discretion to classify this site as Human Exposure Under Control, consistent with the requirements laid out in the Superfund Environmental Indicators Guidance (OSWER 9285 02, March 2008, pages 4-10 and 4-11).	Yes	Current Human Exposure Controlled and Protective Remedy in Place

Remedial Project Manager Edwards, Kristine

Date Completed

JEN
3/10/2016

Superfund Long-Term Human Health Protection Worksheet

Definition: The Long-Term Human Health Protection EI documents the progress achieved towards providing long-term human health protection by measuring the incremental progress achieved in controlling unacceptable human exposures at a site.

Site Name: IDAHO POLE CO.

EPA ID: MTD006232276

HE Survey Status: Current Human Exposure Controlled and Protective Remedy in Place

Estimated Under Control Date:

Estimated Date for Sufficient Information to make a HE Determination (if HEID):

Estimated LTHHP will be Achieved: 06/30/08 ~~7/30/08~~ ?

LTHAP achieved date?
date of 2015 5-yr. review

Justification Text: If site status has changed. Please enter a justification as to why the status has changed:

<p>Step 1. Is there sufficient known and reliable information to make an evaluation on human exposures at this site?</p> <p>Answer: Yes</p> <p>Listing Reference Documents: <u>2015 5 Year Review</u></p>	<p>No</p>	<p>Insufficient Data to Determine Human Exposure Control Status</p>	
↓ Yes			
<p>Step 2. Have all human exposure-related cleanup goals been met for the entire site?</p> <p>Answer: No</p> <p>Listing Reference Documents: <u>2015 5 Year Review</u></p>	<p>Yes</p>	<p>Long-Term Human Health Protection Achieved</p>	
↓ No			
<p>Skip to Step 5</p>	<p>Step 3. Are there complete human exposure pathways between contaminated groundwater, surface water, soil, sediment or air media and human receptors such that exposures can be reasonably expected under current conditions?</p> <p>Answer: No</p> <p>Listing Reference Documents:</p>	<p>No</p>	
	↓ Yes		
	<p>Step 4. Are the actual or reasonably expected human exposures associated with the complete pathways identified in Step 3 with acceptable limits under current conditions?</p> <p>Answer:</p> <p>Listing Reference Documents:</p>	<p>No</p>	<p>Current Human Exposures Not Controlled</p>
↓ Yes			
<p>Step 5. Is the site Construction Complete, is the remedy operating as intended, and are engineering and institutional controls, if required, in place and effective?</p> <p>Answer: <u>Yes</u></p> <p>Listing Reference Documents: <u>2015 5 Year Review</u></p>	<p>No</p> <p>Yes</p>	<p>Current Human Exposures Controlled</p> <p>Current Human Exposure Controlled and Protective Remedy in Place</p>	
<p>Step 6. Are there continuing exposures at the site?</p> <p>Answer: No</p> <p>Answer "Yes" only if EPA (or a state or PRP) has extended all response actions and legal authorities to prevent unacceptable human exposures, yet exposures continue due to a refusal by the property owner(s) to participate in the remedy (e.g., refusal to accept a municipal water supply hookup) AND the region wishes to exercise its discretion to classify this site as Human Exposure Under Control, consistent with the requirements laid out in the Superfund Environmental Indicators Guidance (OSWER 9285 02, March 2008, pages 4-10 and 4-11).</p>			

Remedial Project Manager Hoogerheide, Roger

Date Completed

3/8/16
1/9/16
03/10/2016

Superfund Long-Term Human Health Protection Worksheet

Definition: The Long-Term Human Health Protection EI documents the progress achieved towards providing long-term human health protection by measuring the incremental progress achieved in controlling unacceptable human exposures at a site.

Site Name: LOCKWOOD SOLVENT GROUND WATER PLUME

EPA ID: MT0007623052

HE Survey Status: Current Human Exposure Controlled

Estimated Under Control Date:

Estimated Date for Sufficient Information to make a HE Determination (if HEID):

Estimated LTHHP will be Achieved: 12/31/23

Justification Text: If site status has changed. Please enter a justification as to why the status has changed:

Municipal water supply and indoor air vapor mitigation measures taken. Worker exposures not considered to be reasonably expected.

Skip to Step 5	Step 1. Is there sufficient known and reliable information to make an evaluation on human exposures at this site? Answer: <u>Yes</u> Listing Reference Documents: <u>2005 ROD</u>	No	Insufficient Data to Determine Human Exposure Control Status
	↓ Yes		
	Step 2. Have all human exposure-related cleanup goals been met for the entire site? Answer: <u>No</u> Listing Reference Documents:	Yes	Long-Term Human Health Protection Achieved
	↓ No		
	Step 3. Are there complete human exposure pathways between contaminated groundwater, surface water, soil, sediment or air media and human receptors such that exposures can be reasonably expected under current conditions? Answer: <u>No</u> Listing Reference Documents:	No	Current Human Exposures Not Controlled
	↓ Yes		
Step 4. Are the actual or reasonably expected human exposures associated with the complete pathways identified in Step 3 with acceptable limits under current conditions? Answer: Listing Reference Documents:	No	Current Human Exposures Controlled Current Human Exposure Controlled and Protective Remedy in Place	
↓ Yes			
Step 5. Is the site Construction Complete, is the remedy operating as intended, and are engineering and institutional controls, if required, in place and effective? Answer: <u>No</u> Listing Reference Documents:	No	Current Human Exposure Controlled and Protective Remedy in Place	
↓ Yes			
Step 6. Are there continuing exposures at the site? Answer: <u>No</u> Answer "Yes" only if EPA (or a state or PRP) has extended all response actions and legal authorities to prevent unacceptable human exposures, yet exposures continue due to a refusal by the property owner(s) to participate in the remedy (e.g., refusal to accept a municipal water supply hookup) AND the region wishes to exercise its discretion to classify this site as Human Exposure Under Control, consistent with the requirements laid out in the Superfund Environmental Indicators Guidance (OSWER 9285 02, March 2008, pages 4-10 and 4-11).			

Remedial Project Manager Hoogerheide, Roger all
Tillman McAdams all

Date Completed

3/8/16

9/10/2016

Superfund Long-Term Human Health Protection Worksheet

Definition: The Long-Term Human Health Protection EI documents the progress achieved towards providing long-term human health protection by measuring the incremental progress achieved in controlling unacceptable human exposures at a site.

Site Name: MILLTOWN RESERVOIR SEDIMENTS

EPA ID: MTD980717565

HE Survey Status: Current Human Exposure Controlled

Estimated Under Control Date:

Estimated Date for Sufficient Information to make a HE Determination (if HEID):

Estimated LTHHP will be Achieved: 09/30/26

Justification Text: If site status has changed. Please enter a justification as to why the status has changed:

Changed as a result of a data quality review and reassessment completed on 11/10/05 by the site RPM and the Montana Office Director.

Skip to Step 5	Step 1. Is there sufficient known and reliable information to make an evaluation on human exposures at this site? Answer: <u>Yes</u> Listing Reference Documents:	No	Insufficient Data to Determine Human Exposure Control Status
	↓ Yes		
	Step 2. Have all human exposure-related cleanup goals been met for the entire site? Answer: <u>NO</u> Listing Reference Documents:	Yes	Long-Term Human Health Protection Achieved
	↓ No		
	Step 3. Are there complete human exposure pathways between contaminated groundwater, surface water, soil, sediment or air media and human receptors such that exposures can be reasonably expected under current conditions? Answer: <u>NO</u> Listing Reference Documents:	No	Current Human Exposures Not Controlled
	↓ Yes		
Step 4. Are the actual or reasonably expected human exposures associated with the complete pathways identified in Step 3 with acceptable limits under current conditions? Answer: Listing Reference Documents:	No	Current Human Exposures Controlled Current Human Exposure Controlled and Protective Remedy in Place	
↓ Yes			
Step 5. Is the site Construction Complete, is the remedy operating as intended, and are engineering and institutional controls, if required, in place and effective? Answer: <u>NO</u> Listing Reference Documents:	No		
↓ Yes			
Step 6. Are there continuing exposures at the site? Answer: <u>Yes No</u> Answer "Yes" only if EPA (or a state or PRP) has extended all response actions and legal authorities to prevent unacceptable human exposures, yet exposures continue due to a refusal by the property owner(s) to participate in the remedy (e.g., refusal to accept a municipal water supply hookup) AND the region wishes to exercise its discretion to classify this site as Human Exposure Under Control, consistent with the requirements laid out in the Superfund Environmental Indicators Guidance (OSWER 9285 02, March 2008, pages 4-10 and 4-11).			

Remedial Project Manager Sparks, Sara

Date Completed

03/10/2016

Superfund Long-Term Human Health Protection Worksheet

Definition: The Long-Term Human Health Protection EI documents the progress achieved towards providing long-term human health protection by measuring the incremental progress achieved in controlling unacceptable human exposures at a site.

Site Name: MONTANA POLE AND TREATING

EPA ID: MTD006230635

HE Survey Status: Current Human Exposure Controlled

Estimated Under Control Date:

Estimated Date for Sufficient Information to make a HE Determination (if HEID):

Estimated LTHHP will be Achieved: 12/31/14

Justification Text: If site status has changed. Please enter a justification as to why the status has changed:

Change the estimated long-term human health protected date.

Step 1. Is there sufficient known and reliable information to make an evaluation on human exposures at this site?

Answer: Yes

Listing Reference Documents: JUNE 6/30/2011 5 Year Review

No

Insufficient Data to Determine Human Exposure Control Status

Yes

Step 2. Have all human exposure-related cleanup goals been met for the entire site?

Answer: No

Listing Reference Documents:

Yes

Long-Term Human Health Protection Achieved

No

No

Step 3. Are there complete human exposure pathways between contaminated groundwater, surface water, soil, sediment or air media and human receptors such that exposures can be reasonably expected under current conditions?

Answer: No

Listing Reference Documents:

Yes

Skip to Step 5

Step 4. Are the actual or reasonably expected human exposures associated with the complete pathways identified in Step 3 with acceptable limits under current conditions?

Answer:

Listing Reference Documents:

No

Current Human Exposures Not Controlled

Yes

Step 5. Is the site Construction Complete, is the remedy operating as intended, and are engineering and institutional controls, if required, in place and effective?

Answer: No

Listing Reference Documents:

No

Current Human Exposures Controlled

Yes

Current Human Exposure Controlled and Protective Remedy in Place

Step 6. Are there continuing exposures at the site?

Answer: No

Answer "Yes" only if EPA (or a state or PRP) has extended all response actions and legal authorities to prevent unacceptable human exposures, yet exposures continue due to a refusal by the property owner(s) to participate in the remedy (e.g., refusal to accept a municipal water supply hookup) AND the region wishes to exercise its discretion to classify this site as Human Exposure Under Control, consistent with the requirements laid out in the Superfund Environmental Indicators Guidance (OSWER 9285 02, March 2008, pages 4-10 and 4-11).

Remedial Project Manager

Nikia Greene

Date Completed

3-8-16

Superfund Long-Term Human Health Protection Worksheet

Definition: The Long-Term Human Health Protection EI documents the progress achieved towards providing long-term human health protection by measuring the incremental progress achieved in controlling unacceptable human exposures at a site.

Site Name: MOUAT INDUSTRIES

EPA ID: MTD021997689

HE Survey Status: Current Human Exposure Controlled and Protective Remedy in Place

Estimated Under Control Date:

Estimated Date for Sufficient Information to make a HE Determination (if HEID):

Estimated LTHHP will be Achieved: 12/31/14 3/8/16

Justification Text: If site status has changed, Please enter a justification as to why the status has changed:

Remedy is in place. Confirmed by 4/15/13 5-Yr. Review

Long Term Human Health Protection Achieved

Skip to Step 5	<p>Step 1. Is there sufficient known and reliable information to make an evaluation on human exposures at this site?</p> <p>Answer: <u>Yes</u></p> <p>Listing Reference Documents: <u>Various Action Memos</u></p>	No	Insufficient Data to Determine Human Exposure Control Status
	<p>Step 2. Have all human exposure-related cleanup goals been met for the entire site?</p> <p>Answer: <u>Yes</u></p> <p>Listing Reference Documents: <u>5 Year Review 4/15/13</u></p>	Yes	Long-Term Human Health Protection Achieved
	<p>Step 3. Are there complete human exposure pathways between contaminated groundwater, surface water, soil, sediment or air media and human receptors such that exposures can be reasonably expected under current conditions?</p> <p>Answer: <u>No</u></p> <p>Listing Reference Documents:</p>	No	Current Human Exposures Not Controlled
	<p>Step 4. Are the actual or reasonably expected human exposures associated with the complete pathways identified in Step 3 with acceptable limits under current conditions?</p> <p>Answer:</p> <p>Listing Reference Documents:</p>	No	
	<p>Step 5. Is the site Construction Complete, is the remedy operating as intended, and are engineering and institutional controls, if required, in place and effective?</p> <p>Answer: <u>Yes</u></p> <p>Listing Reference Documents:</p>	No	
	<p>Step 6. Are there continuing exposures at the site?</p> <p>Answer: <u>No</u></p> <p>Answer "Yes" only if EPA (or a state or PRP) has extended all response actions and legal authorities to prevent unacceptable human exposures, yet exposures continue due to a refusal by the property owner(s) to participate in the remedy (e.g., refusal to accept a municipal water supply hookup) AND the region wishes to exercise its discretion to classify this site as Human Exposure Under Control, consistent with the requirements laid out in the Superfund Environmental Indicators Guidance (OSWER 9285 02, March 2008, pages 4-10 and 4-11).</p>	Yes	Current Human Exposure Controlled and Protective Remedy in Place

Remedial Project Manager Hoogerheide, Roger

Date Completed 3/8/16

Superfund Long-Term Human Health Protection Worksheet

Definition: The Long-Term Human Health Protection EI documents the progress achieved towards providing long-term human health protection by measuring the incremental progress achieved in controlling unacceptable human exposures at a site.

Site Name: SILVER BOW CREEK/BUTTE AREA

EPA ID: MTD980502777

HE Survey Status: Current Human Exposure Controlled

Estimated Under Control Date:

Estimated Date for Sufficient Information to make a HE Determination (if HEID):

Estimated LTHHP will be Achieved: 09/30/15 9/30/30

Justification Text: If site status has changed. Please enter a justification as to why the status has changed:

Step 1. Is there sufficient known and reliable information to make an evaluation on human exposures at this site? Answer: <u>Yes</u> <u>No</u> Listing Reference Documents: <u>Have not started westside soil BI</u>		No	Insufficient Data to Determine Human Exposure Control Status	
↓ Yes				
Step 2. Have all human exposure-related cleanup goals been met for the entire site? Answer: <u>NO</u> Listing Reference Documents:		Yes	Long-Term Human Health Protection Achieved	
↓ No				
Skip to Step 5	Step 3. Are there complete human exposure pathways between contaminated groundwater, surface water, soil, sediment or air media and human receptors such that exposures can be reasonably expected under current conditions? Answer: <u>NO</u> Listing Reference Documents:	No		
	↓ Yes			
	Step 4. Are the actual or reasonably expected human exposures associated with the complete pathways identified in Step 3 with acceptable limits under current conditions? Answer: Listing Reference Documents:	No		Current Human Exposures Not Controlled
	↓ Yes			
	Step 5. Is the site Construction Complete, is the remedy operating as intended, and are engineering and institutional controls, if required, in place and effective? Answer: <u>NO</u> Listing Reference Documents:	No	Current Human Exposures Controlled	
		Yes	Current Human Exposure Controlled and Protective Remedy in Place	
Step 6. Are there continuing exposures at the site? Answer: <u>NO</u> Answer "Yes" only if EPA (or a state or PRP) has extended all response actions and legal authorities to prevent unacceptable human exposures, yet exposures continue due to a refusal by the property owner(s) to participate in the remedy (e.g., refusal to accept a municipal water supply hookup) AND the region wishes to exercise its discretion to classify this site as Human Exposure Under Control, consistent with the requirements laid out in the Superfund Environmental Indicators Guidance (OSWER 9285 02, March 2008, pages 4-10 and 4-11).				

Remedial Project Manager Greene, Nikia

Date Completed 3-8-16

Superfund Long-Term Human Health Protection Worksheet

Definition: The Long-Term Human Health Protection EI documents the progress achieved towards providing long-term human health protection by measuring the incremental progress achieved in controlling unacceptable human exposures at a site.

Site Name: SMURFIT-STONE MILL, FRENCHTOWN

EPA ID: MTN000802850

HE Survey Status:

Estimated Under Control Date:

Estimated Date for Sufficient Information to make a HE Determination (if HEID): 12/31/2021

Estimated LTHHP will be Achieved:

Justification Text: If site status has changed. Please enter a justification as to why the status has changed:

Skip to Step 5	Step 1. Is there sufficient known and reliable information to make an evaluation on human exposures at this site? Answer: <u>No</u> Listing Reference Documents:	No	Insufficient Data to Determine Human Exposure Control Status
	↓ Yes		
	Step 2. Have all human exposure-related cleanup goals been met for the entire site? Answer: Listing Reference Documents:	Yes	Long-Term Human Health Protection Achieved
	↓ No		
	Step 3. Are there complete human exposure pathways between contaminated groundwater, surface water, soil, sediment or air media and human receptors such that exposures can be reasonably expected under current conditions? Answer: Listing Reference Documents:	No	Current Human Exposures Not Controlled
	Step 4. Are the actual or reasonably expected human exposures associated with the complete pathways identified in Step 3 with acceptable limits under current conditions? Answer: Listing Reference Documents:	No	
↓ Yes			
Step 5. Is the site Construction Complete, is the remedy operating as intended, and are engineering and institutional controls, if required, in place and effective? Answer: Listing Reference Documents:	No	Current Human Exposures Controlled	
↓ Yes			
		Yes	Current Human Exposure Controlled and Protective Remedy in Place
Step 6. Are there continuing exposures at the site? Answer: Answer "Yes" only if EPA (or a state or PRP) has extended all response actions and legal authorities to prevent unacceptable human exposures, yet exposures continue due to a refusal by the property owner(s) to participate in the remedy (e.g., refusal to accept a municipal water supply hookup) AND the region wishes to exercise its discretion to classify this site as Human Exposure Under Control, consistent with the requirements laid out in the Superfund Environmental Indicators Guidance (OSWER 9285 02, March 2008, pages 4-10 and 4-11).			

Remedial Project Manager Sparks, Sara

Date Completed

03/10/2016

Superfund Long-Term Human Health Protection Worksheet

Definition: The Long-Term Human Health Protection EI documents the progress achieved towards providing long-term human health protection by measuring the incremental progress achieved in controlling unacceptable human exposures at a site.

Site Name: UPPER TENMILE CREEK MINING AREA

EPA ID: MTSEF7578012

HE Survey Status: Current Human Exposure Not Controlled

Estimated Under Control Date: 09/30/27

Estimated Date for Sufficient Information to make a HE Determination (if HEID):

Estimated LTHHP will be Achieved: 09/30/27

Justification Text: If site status has changed. Please enter a justification as to why the status has changed:

Changed as a result of a data quality review and reassessment completed on 9/17/07 by the site RPM and the Montana Office Director. 95% of Residential Yards Remediation Planned Complete. Mine Waste Sites near Rimini and Landmark Subdivisions Remediated. M

mine services and discharges in Rimini area are the next priority remedial activity to address human exposure concerns

<p>Step 1. Is there sufficient known and reliable information to make an evaluation on human exposures at this site?</p> <p>Answer: Yes</p> <p>Listing Reference Documents:</p>	<p>No</p>	<p>Insufficient Data to Determine Human Exposure Control Status</p>
↓ Yes		
<p>Step 2. Have all human exposure-related cleanup goals been met for the entire site?</p> <p>Answer: No</p> <p>Listing Reference Documents:</p>	<p>Yes</p>	<p>Long-Term Human Health Protection Achieved</p>
↓ No		
<p>Step 3. Are there complete human exposure pathways between contaminated groundwater, surface water, soil, sediment or air media and human receptors such that exposures can be reasonably expected under current conditions?</p> <p>Answer: Yes</p> <p>Listing Reference Documents:</p>	<p>No</p>	<p>Skip to Step 5</p>
↓ Yes		
<p>Step 4. Are the actual or reasonably expected human exposures associated with the complete pathways identified in Step 3 with acceptable limits under current conditions?</p> <p>Answer: No</p> <p>Listing Reference Documents:</p>	<p>No</p>	<p>Current Human Exposures Not Controlled</p>
↓ Yes		
<p>Step 5. Is the site Construction Complete, is the remedy operating as intended, and are engineering and institutional controls, if required, in place and effective?</p> <p>Answer:</p> <p>Listing Reference Documents:</p>	<p>No</p>	<p>Current Human Exposures Controlled</p>
↓ Yes		
<p>Step 6. Are there continuing exposures at the site?</p> <p>Answer: No</p> <p>Answer "Yes" only if EPA (or a state or PRP) has extended all response actions and legal authorities to prevent unacceptable human exposures, yet exposures continue due to a refusal by the property owner(s) to participate in the remedy (e.g., refusal to accept a municipal water supply hookup) AND the region wishes to exercise its discretion to classify this site as Human Exposure Under Control, consistent with the requirements laid out in the Superfund Environmental Indicators Guidance (OSWER 9285 02, March 2008, pages 4-10 and 4-11).</p>	<p>Yes</p>	<p>Current Human Exposure Controlled and Protective Remedy in Place</p>

Remedial Project Manager	McAdams, Tillman	Date Completed	March 8, 2016
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95%
03/10/2016